

Inference at * 2 0 1
of proof for Lemma multiply_nat_wf:

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1.  $i : \mathbb{N}$ 
2.  $j : \mathbb{Z}$ 
3.  $j \geq 0$ 
 $\vdash 0 \leq (i * j)$ 
  by (\p.IntInd (get_int_arg 'hn' p) p)

1: .....downcase..... NILNIL

      3.  $j < 0$ 
      4.  $((j+1) \geq 0) \Rightarrow (0 \leq (i * (j+1)))$ 
       $\vdash (j \geq 0) \Rightarrow (0 \leq (i * j))$ 
2: .....basecase..... NILNIL

      1.  $i : \mathbb{N}$ 
       $\vdash (0 \geq 0) \Rightarrow (0 \leq (i * 0))$ 
3: .....upcase..... NILNIL

      3.  $0 < j$ 
      4.  $((j - 1) \geq 0) \Rightarrow (0 \leq (i * (j - 1)))$ 
       $\vdash (j \geq 0) \Rightarrow (0 \leq (i * j))$ 
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